Fantasea Line

Remora Flash

Operator's Manual

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1. Introduction

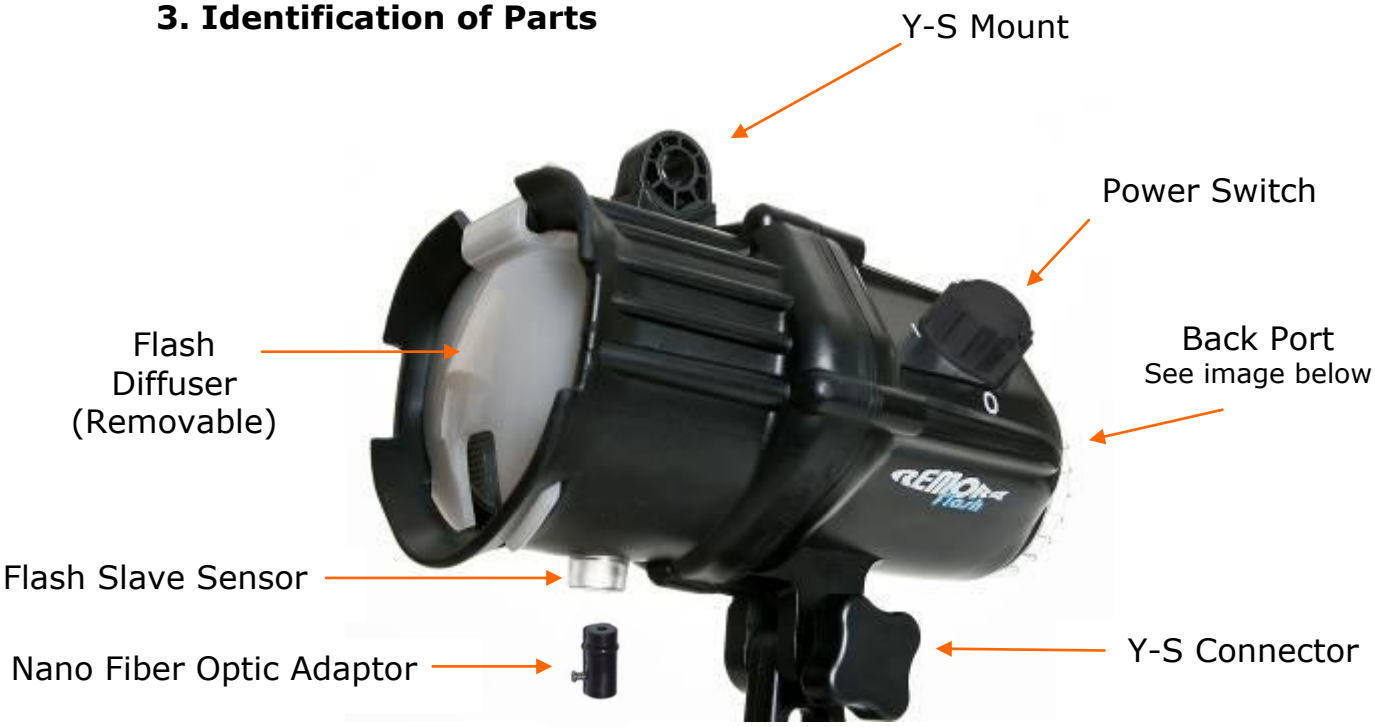
The Remora Flash has been especially designed for compact digital housings. It is a slave flash which triggers in sync with the camera's internal flash, and features 4 different pre-flash settings, to cover the needs of all compact digital cameras in the market. The Remora Flash has a guide number of 20, and therefore compatible for both macro and wide angle shots. The power output can be manually adjusted to provide the most accurate amount of light in all conditions and a short recycle time ensures quick responsiveness even when using the maximum power output. The Remora Flash also features a built-in Y-S Mount for attaching a focus light on top of the flash, sparing the need for an additional arm.

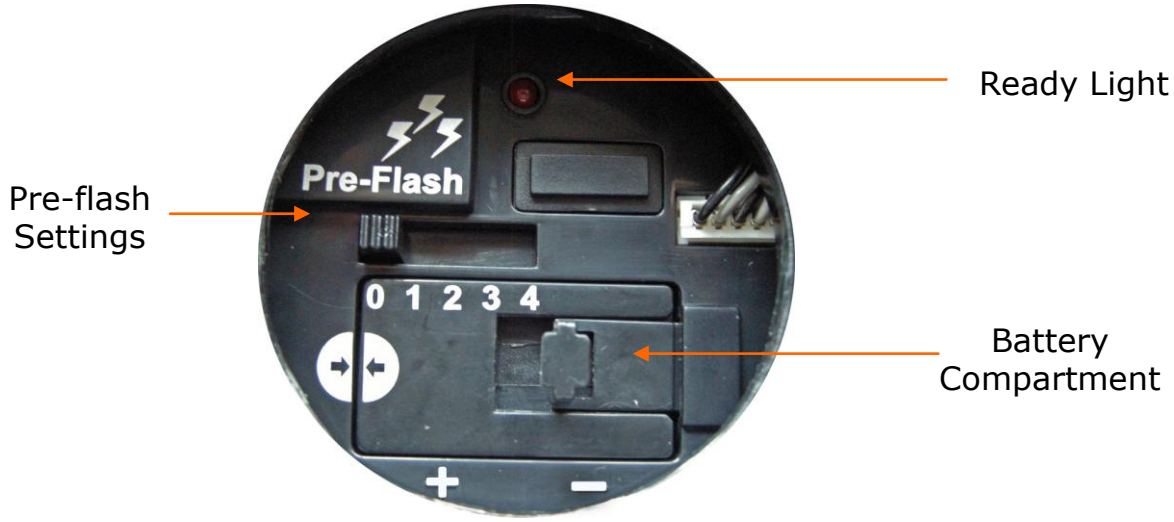
2. Included in the Kit

- Remora Flash
- Removable Flash Diffuser
- Diffuser String
- Arm Screw
- Silicone Grease
- Spare O-ring
- Nano Fiber Optic Adaptor Kit
- Instruction Manual
- Warranty

Please read this instruction manual carefully prior to using your underwater flash. Only with a thorough understanding of this manual's content, will you be able to use the flash correctly.

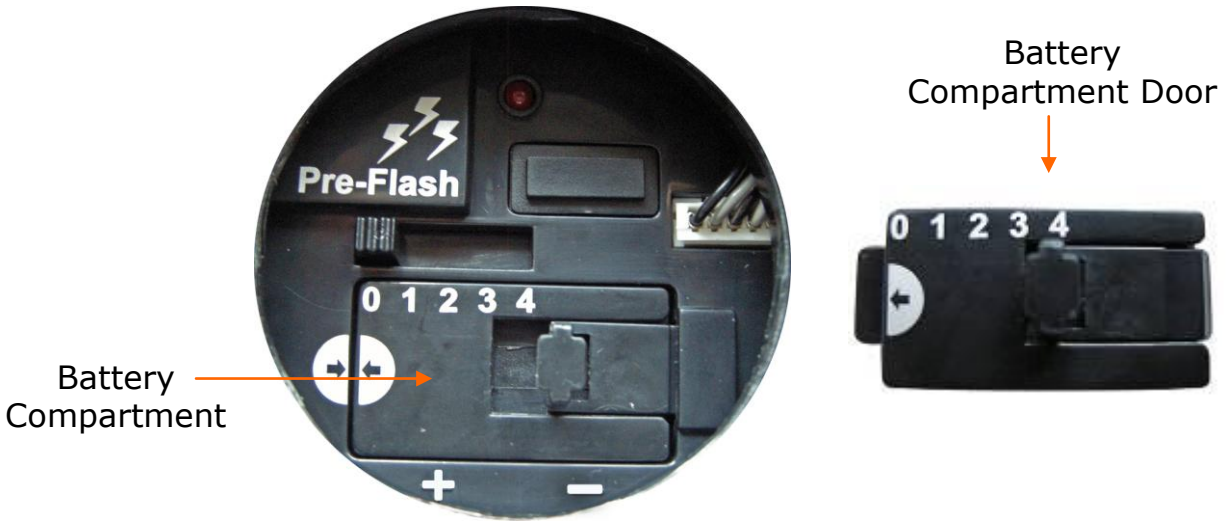
3. Identification of Parts





4. Installing and Removing Batteries

A. Make sure that the power switch is set to the OFF (0) position.
B. Turn the back door of the flash counterclockwise until it can be removed.
C. To open the battery compartment, gently slide the knob on the battery compartment door all the way to the left. Once the knob is positioned to the left, the battery compartment door can be removed. Carefully pull it out, using extra caution not to damage the flange on the left side of the battery compartment door.



D. Install 4 new or freshly charged batteries according to the + and - marks. Make sure that you are inserting the batteries in the correct direction. Do not mix new and old or different types of batteries as this may lead to an over-discharge of the weaker battery, resulting in gassing or leaking of fluid from the battery.
E. Reinstall the battery compartment door. Start by inserting the flange on the door to the left side of the battery

compartment, aligning the markings on the battery compartment door with those on the left side of the battery compartment, and proceed by carefully pushing the door against the batteries. Once the door is properly aligned, gently slide the knob to the right side in order to secure the closure. Make sure that once you stop applying pressure on the battery compartment door, it remains closed.

F. Turn the flash on by setting the power switch to the ON (I) position. If batteries were installed properly, the Ready Light should turn on after a few seconds.

G. When the Ready Light is on, the flash can be tested by turning the power switch to TEST (⚡). Make sure to set the power switch to OFF (O) after the test.

Do not allow any drops of water to enter the battery compartment when installing or removing batteries.

5. Setting the Proper Pre-Flash Program for Your Camera

Please note that watching the Remora Flash fire does not mean it triggers on the right timing. If it is not synchronized with your camera, this will usually result in underexposed images.

What are Pre-Flashes?

Pre-flashes are one or more flashes given out to assist in the focusing and exposure setting of the camera before the actual picture-taking primary flash is fired. It is important to set the

Remora to the correct pre-flash setting so it fires in sync with the primary flash of the camera.

The Remora Flash features 4 different pre-flash settings:

0 – For cameras with no pre-flash

1 – For cameras with 1 pre-flash (and cameras with rapid-fire pre-flash)

2 – For cameras with 2 pre-flashes

3 – For cameras with 3 pre-flashes

4 – For cameras with 4 pre-flashes

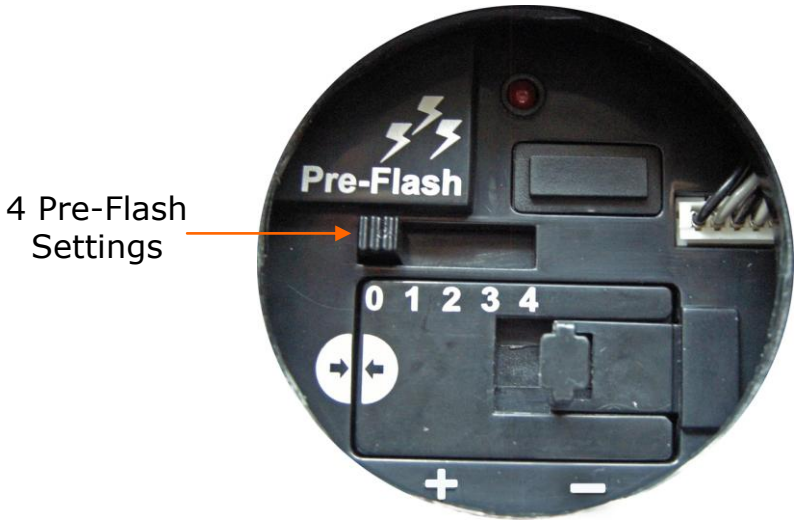
In order to properly synchronize it with your camera, you should first determine which pre-flash program on the Remora Flash is the most suitable with your camera's internal flash:

A. Place your digital camera in front of the Remora Flash within a distance of approximately 1 meter, so they are facing each other.

B. Set your camera built-in flash to ON.

C. Turn the Remora Flash on by setting the power switch to ON (I).

D. Start with the pre-flash set to "4" and take a picture. If the strobe does not fire, move the pre-flash to the next setting downward and take another picture. Repeat until the strobe fires, and this will be the correct setting. Do not set the pre-flash to any lower value.



E. Slide the pre-flash setting knob to the proper position, according to your testing results. Please note that as long as you are using the Remora Flash with the same camera, there is no need to perform this test again and the pre-flash setting knob should be left in the same position.

F. Turn off the Remora Flash by setting the power switch to OFF (O).

6. Closing the Back Port of the Remora Flash

A. Prior to each closure of the back port cap, the Gasket seal and O-ring, positioned on the cap, should be visually inspected. If there is any debris present, including dirt, sand, dust, hair, grease or other matter, they must be cleaned to insure a proper watertight seal. Cleaning the Gasket seal or O-ring is a simple matter of wiping it with a damp, soft cloth to remove the foreign matter. Be careful the cloth you use does not leave any of its own material behind, as this can also affect the effectiveness of the seal.

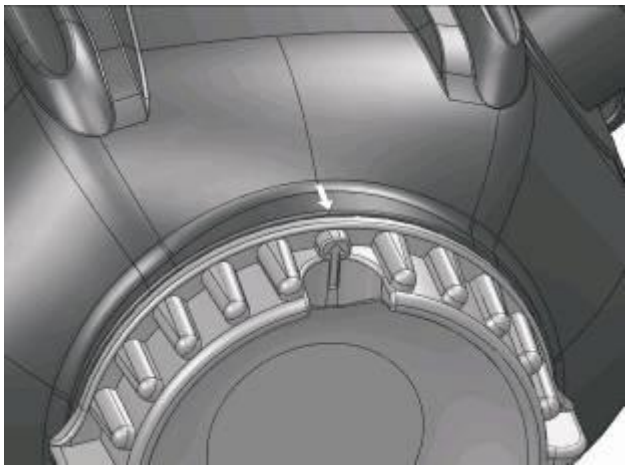
B. Please note that while the O-ring should be periodically lubricated, the Gasket Seal is a face-to-face compression seal and is not subject to friction. Therefore, the Gasket seal should <u>not</u> be lubricated. Lubricating it might interfere with the watertight seal of the flash.

C. It is recommended to apply a slight layer of silicone on the <u>O-ring only</u>. Please note that the amount of lubrication required on the O-ring is only enough to allow it to slip into place without friction, so it does not twist or become

dislodged. More grease is not better, and could in some cases interfere with the watertight seal of the flash.

D. When replacing any of the seals, place them back into the same groove you have taken them out of. Be sure they are completely positioned in the channel for a proper seal.

E. Reinstall the back port cap by turning it clockwise until you encounter resistance and the arrow on the back door is aligned with the arrow on the flash (see illustration). Please do not continue screwing the back door further than this point, as this will make it difficult to unscrew it after the dive. Make sure that nothing is jamming the closing of the door and in any respect, do not dive with the strobe if the back door is not closed properly.



F. After closing the back port of the Remora Flash, always test the flash in a shallow water pool prior to diving with it, in order to verify that it is perfectly watertight sealed. Make sure no bubbles are escaping from it and that no water is entering.

7. Mounting the Remora Flash on a Flex or Ball & Joint Arm

A. Remove the screw from the Y-S Connector at the bottom of the Remora Flash by unscrewing it all the way out.

B. Position the Remora Flash on top of the Flex or Ball & Joint Arm Set so that the Y-S Mount on top of the arm is aligned with the Y-S Connector at the bottom of the flash.
C. Install the screw all the way through the Remora Flash and arm. Tighten it enough to keep the Remora Flash in a fixed position.

8. Taking Photographs with the Remora Flash

A. Turn the Remora Flash on by setting the power switch to ON (I).
B. Position the flash in a way that it is pointed at your subject. Also, make sure that nothing blocks the slave sensor at the bottom of the flash, so it can synchronize with your camera's internal flash.
C. Set your camera built-in flash to ON ("flash always").
D. Take a photograph by pushing the shutter-release button of the camera. The camera's built-in flash fires and triggers the Remora Flash as well.
E. Adjust the output of the Remora Flash by turning the output control on the flash (10-100%) to achieve the desired exposure in your photograph.
F. Please note that the output control also serves as the lid of the pressure release valve located underneath. In case of battery leak and accumulating gases, this control will be automatically pushed out for safety reasons and for releasing the pressure inside the flash. However, **this knob should never be forcefully removed underwater as it will cause flooding and irreparable damage to the Flash.**
G. Always shoot pictures with the Ready Light fully lit up.

H. It is highly recommended to install the diffuser when shooting wide angle or extreme macro images. In wide angle photography, the diffuser can be used in order to spread the light more evenly and in a way that it covers a greater angle. In macro photography, the diffuser can be used to absorb part of the light when the flash is too powerful, even when set to the lowest output.

I. When the Remora Flash is not in use, it is best to turn it off in order to prevent exhaustion of the batteries.

9. Using a Fiber Optic Cable with the Remora Flash (optional)

Although the Remora Flash features a slave sensor and is capable of synchronizing with the camera's internal flash without using any cables in most diving conditions, a fiber optic cable ensures the best synchronization between the camera internal flash and the Remora Flash at all angles and in various diving conditions, especially in shallow clear water with bright ambient light.

The Remora Fiber Optic Cable Kit (#6315) can be separately ordered. For further information, Please refer to the Fantasea website, www.fantasea.com.

In order to use a fiber optic cable with the Remora Flash, please follow the instructions below.

A. Attach the fiber optic cable to the Remora Flash:
    I. Insert the exposed end of the fiber optic cable (the end without the fitting) into the small hole of the Nano Adaptor unit until the fiber optic cable reaches the end of the adaptor.
    II. Using the tool that comes with the Nano Adaptor kit, tighten the screw on the adaptor. Tighten it enough to stabilize the fiber optic cable inside the adaptor, but don't tighten it too strongly. **Tightening the screw too much might damage the fiber optic cable.**
    III. Carefully but firmly insert the black adaptor inside the fitting around the Remora Flash slave sensor. Insert it all the way to the end, and do not use force once you encounter any resistance.
B. Attach the fiber optic cable to the camera housing:
    I. The other end of the fiber optic cable attaches to the outside of the camera housing - opposite the camera's internal flash - by using both sides of the Velcro strip included in the kit. The white plastic fitting normally comes with the Velcro tape attached and therefore you are only required to apply the other side of the Velcro strip on the housing to attach it. If your housing features a built-in flash diffuser, the Velcro strip should be attached beneath it, directly to the housing. If possible, place the Velcro strip between the built-in flash diffuser and the housing. If necessary, remove the built-in flash diffuser in order to place the Velcro strip in front of the camera internal flash. Please note that it’s mostly recommended to totally block out the internal flash of the camera when using the fiber optic cable, and

therefore removing the built-in flash diffuser will have no affect on lighting.

II. It is preferable to totally block out the internal flash of the camera after attaching the camera side of the cable by putting black electrical tape over the fiber optic connector attached to the housing case. This effectively achieves two things: it diminishes the effects of backscatter, as well as avoiding any shadowing effect while using wide angle or macro accessory lenses.

III. Once the fiber optic cable is installed, you can test the synchronization by photographing the Remora Flash (as described in step number 5).

10. Using a Focus Light with the Remora Flash (optional)

The Remora Flash features a Y-S Mount, which enables mounting a focus light on top of the flash unit, sparing the need for an additional arm and enabling the mounting of another flash unit on the second arm. A focus light better enables the camera's auto focus, especially in low light conditions and during night dives.

For the different Fantasea focus lights available, please refer to our website, www.fantasea.com.

To mount a focus light on top of the Remora Flash:

A. Remove the screw from the Y-S Connector at the bottom of the focus light by unscrewing it all the way out.

B. Position the focus light over the Remora Flash so that the Y-S Mount on top of the flash is aligned with the Y-S Connector at the bottom of the focus light.

D. Install the screw all the way through the focus light and Remora Flash connectors. Tighten it enough to keep the focus light in a fixed position.

E. During the dive, tilt the focus light so that it is pointing at your subject.

11. Care & Maintenance

The Remora Flash requires only a minimum amount of care for reliable performance. The following tips will enable you to get the best results.

A. Submerge the strobe in fresh water for about 20 minutes after every dive in order to dissolve the salt water crystals from around the controls and openings of the flash. Manipulate each of the movable controls to assist the removal of salt particles from these tight areas.

B. Allow the flash to dry thoroughly before packing it away for the day or for the trip home. You may use a soft towel or cloth to dry the flash. Be sure there is no grease or other debris on the towel.

C. Visually check the condition of the O-ring and Gasket seal before every dive. If they are dirty, clean them with fresh water and dry them with a soft cloth as described above. If they are damaged in any way, such as cut or perforated, replace them immediately.

D. It is recommended to slightly lubricate the radial O-ring periodically. It's important to note that the amount of lubrication required on the O-ring is only

enough to allow it to slip into place without friction, so it does not twist or become dislodged. More grease is not better, and could in some cases interfere with the watertight seal of the flash.

E. Do not use any lubrication on the Gasket seal.

F. Do not drop the flash on hard surfaces. It is not a shock absorber, and could crack, affecting its watertight integrity. It could also cause damage to the electronic components inside.

G. When travelling, remove batteries, leave back door loose or unassembled and pack in protected fashion in a padded case or bag.

H. Never dive with the Remora Flash to a depth greater than 55 meters/180 feet.

12. Specifications

- Continuous Adjustable power output (10%-100%)
- 4 designated pre-flash settings
- Powerful 42 W-second flash-tube
- Guide Number 20 (ISO 100/air)
- Removable flash diffuser included
- Uses 4 x AA batteries (alkaline or rechargeable)
- Approx. 240 flashes per set of batteries
- Quick recycle time
- Slave sensor Attachment for fiber optic cable*
- Beam angle 60 degrees horizontal
- Color temperature 5400K
- Y-S Mount for focus light*
- Depth rated to 55m/180 feet

* Fiber optic cable and focus light are not included with the flash. They can be ordered separately.

13. Related Items

The following items are useful when using the Remora Flash, in order to take full advantage of its functions.

Fiber Optic Cable Kit (#6315)

Flex Arm 30 (#3040)

Nano Focus Light (#6022)

LED 44 Light (#6095)

XL Stay Slot Tray (#2030)

For further information please contact us at www.fantasea.com/contact or visit our website www.fantasea.com.